2014 NEC Changes Part 1 (Online)
Utah
COURSE OUTLINE

Credit Hours	8 Hours
Course Timetable	Attached
Course Description	This online code course reviews 100 important changes from Articles 100 – 404.2 of the 2014 National Electrical Code. Each section on the code change includes an illustration, commentary about the change, and details on the significance of the change. Each section also presents a multiple choice question, with four possible answers.
Course Objectives	After completing this course the participant will be able to apply the changes to the National Electrical Code in everyday wiring practice.
Method of Presentation	This is an online course that requires participants to answer multiple choice questions after reviewing the selected sections of the 2014 National Electric Code Changes. After all questions have been answered, participants must complete an attestation statement to affirm their identities and veracity of the course completion.
Method of Evaluation	The course participant must complete all 100 multiple choice questions with a score of at least 75% in order to get credit for the course. Credit will not be awarded unless the participant has completely answered all questions and met or exceeded the 75% accuracy benchmark. The course is also timed; participants will not receive credit until at least 400 active minutes are devoted to the course (50 minute credit hours).
Qualification of Instructor	Resume of course instructor, David Burtt, is attached.

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2014 NEC Changes Part 1		
Question	Section	Time (minutes)
1	00. Code Wide, Adequate, Inadequate, Sufficient	4
2	00.Code Wide, Voltage Threshold	4
3	100 Definitions. Battery System	4
4	100 Definitions. Retrofit Kit	4
5	100. Definitions. Switchgear	4
6	100. Definitions. Coordination (Selective)	4
7	100. Definitions. Device	4
8	100. Definitions. Ground Fault Current Path	4
9	100. Definitions. Grounding Conductor, Equipment (EGC)	4
10	100. Definitions. Intersystem Bonding	4
11	100. Definitions. Premises Wiring (System), Information Note (New)	4
12	100. Definitions. Separately Derived System	4
13	110.16 Arc Flash Hazard Warning signage meet 110.21(B)	4
14	110.21(B) New Field-Applied Hazard Markings.	4
15	110.24, Available Fault Current. Informational Note (New)	4
16	110.25 Lockable Disconnecting Means	4
17	110.26(C)(3) Spaces About Electrical Equipment. Entrance to and	4
18	110.26(E)(2) Dedicated Equipment Space. Outdoor.	4
19	110.27(A) Guarding of Live Parts	4
20	200.4 Neutral Conductors	4
21	210.4(D)Multiwire Branch Circuits. Grouping.	4
22	210.5(C) Branch Circuits. Identification of Ungrounded Conductors	4
23	210.8(A)(7) GFCI for Personnel. Sinks	4
24	210.8(A)(9) Bathtubs or shower stalls	4
25	210.8(A)(10) GFCI Protection for Personnel. Laundry areas	4
26	210.8(B) GFCI Protection for Personnel. Other Than Dwelling Units. Exception No.	4
27	210.8(B) Other Than Dwelling Units (Garages, Service Bays)	4
28	210.8(D) Kitchen Dishwasher Branch Circuit.	4
29	210.12 AFCI Protection Overall	4
30	210.12(A)(1) - (A)(6) AFCI Protection Dwelling Units	4
31	210.12(B) (Exception) AFCI	4
32	210.12(C) AFCI Protection Dorms	4
33	210.13(New) Ground Fault Protection of Equipment	4
34	210.17 Electric Vehicle Branch Circuit	4
35	210.19(A)(1) Branch Circuits Not More Than 600 Volts.	4
36	210.50 Required Outlets. General. Ref. to ADA material/Annex J	4
37	210.52(E)(1) Outdoor Dwelling Unit Receptacles	4
38	210.52(E)3) Balconies, Decks	4
39	210.52(G) Receptacle Outlets. Basements, Garages, Accessory Buildings	4
40	210.52(I) Dwelling Unit Receptacle Outlets - Foyers.	4
41	210.64 (New) Receptacles. Electrical Service Areas	4
42	215.2(A)(1) Minimum Rating and Size. Feeders Not More Than 600 Volts.	4

43	215.12(C) ID of DC feeders. Ungrounded Conductors (Same as branch circuit)	4
44	220.12 Exception. Lighting Load for Specified Occupancies.	4
45	225.10 , 225.21 see 250.104(A)(3) P.264 Wiring on Buildings or Other Structures	4
46	225.36. Also for 225.38 Outside Branch Circuits and Feeders. Type	4
47	225.52(A) Disconnecting Means. Location	4
48	225.56(A)Pre-Energization and Operating Tests.	4
49	225.70 Substations (Deleted)	4
50	230.28 Service Masts as supports	4
51	230.30 Underground Service Conductors Installation	4
52	230.44 Cable Trays	4
53	230.82(3) Equipment Connected to the Supply side of Service	4
54	240.21(B)(1) Overcurrent Protection. Feeder Taps. Not over 10 ft Long.	4
55	240.87 Arc Energy Reduction	4
56	250.24(A)(1)Grounding Service-Supplied Alternating-Current Systems. General.	4
57	250.30 Grounding Separately Derived Alternating-Current Systems.	4
58	250.64(B) Grounding Electrode Conductor Installation	4
59	250.64(D)(1) Building or Structure with Multiple Disconnecting Means in Separate Enclosures	4
60	250.64(E)(1) through (4) Raceways and Enclosures for GEC	4
61	250.66(A)&(B) Connections to a Rod, Pipe, or Plate Electrode, Concrete-Encased Electrodes	4
62	250.68(C) Grounding Electrode Connections	4
63	250.102(C) New Table	4
64	250.119 Identification of Equipment Grounding Conductors	4
65	250.122(B) Size of Equipment Grounding Conductors. Increased in Size.	4
66	250.130(C) Nongrounding Receptacle Replacement or Branch Circuit Extensions	4
67	250.166 Size of DC Grounding Electrode Conductor	4
68	250.167 (New) DC Ground Fault Detection	4
69	250.186(New) Ground Fault Circuit Conductor to Service Equipment	4
70	250.194 Grounding and Bonding of Fences and Other Metal Structures	4
71	300.11(B)(1) Securing and Supporting	4
72	300.22(C)(1) Plenums Wiring Methods.	4
73	300.38 New Raceways in Wet Locations Above Grade.	4
74	310.15(B)(3)(a) Adjustment Factors for More Than Three Current-Carrying Conductors	4
75	310.15(B)(3)(c) Ex. And Table	4
76	310.15(B)(7) (Table) Deletion	4
77	310.15(B)(7) Example D7	4
78	314.15 Damp or Wet Locations	4
79	314.25-Covers and Canopies.	4
80	314.27(A)(1) Vertical Surface Outlets.	4
81	314.27(C).Boxes at Fan Outlets	4
82	314.28(A)(3) Smaller Dimensions	4
83	324.41 Floor Coverings	4

84	330.30(B) Securing and Supporting MC Cable	4
85	330.30(D)(3) (New) Unsupported Cables.	4
86	334.10 NM Cable Uses Permitted	4
87	334.40(B) Boxes and Fittings. Devices of Insulating Material.	4
88	344.2 and 344.100 RMC and Construction	4
89	348.30(A) Ex No 4 Securing and Supporting	4
90	350.42, LFMC Couplings	4
91	370, Reorganization, .10, .12 Cablebus	4
92	376.22(B), Metal Wireways Number of Conductors	4
93	376.56(B)(5) (New), Metal Wireways Power Distribution Blocks	4
94	386.120 Marking Surface Metal Raceways	4
95	392.18(H) and new exception, Cable Tray Marking	4
96	392.20(A) and (B) Cable and Conductor Installation. Multiconductor Cables Operating at 600 Volts or Less.	4
97	393 New Low Voltage Suspended Ceiling Power Distribution Systems	4
98	400.4 (Table) and 400.4, Table 400.4, 400.6(A) Russ LeBlanc	4
99	400.7(A)(11) Flexible Cords and Cables. Uses Permitted.	4
100	404.2(C) New Switches Controlling Lighting Loads.	4
	Total Time (in minutes)	**400**
	Time Requirement (in minutes):	**400**

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Education

Bachelor of Arts, Bates College
Master of Divinity, Union Theological Seminary

Licenses

9665-U	North Carolina Electrical Contracting
40619E	Massachusetts Journeyman
104880	California Electrical Journeyman
BURTTDC953KL	Washington State Administrator

Work Experience

2004 to Present

President, JADE Learning, Inc.
JADE Learning is an educational company providing online and in person training on the National Electrical Code and other trade related topics.

2003

President JADE Construction College, Inc.
JADE Construction College provided continuing education courses for electrical license renewal.

1996-2002

President, JADE Electric, Inc.
Technical Skills Training Company
JADE Electric developed and delivered classes on the National Electrical Code.

1990-1995

Technical Instructor
Allen-Bradley Company
Taught classes on programmable controllers.

1987-1990

Technical Specialist
Electrical Supply and Equipment Co.
Provided technical support for Allen-Bradley Programmable Controllers.

1983-1987

Instructor, Electrical Installation and Maintenance
Rockingham Community College
Taught a 1-year certificate program for entry level electricians

1983-1994

Owner, JAECO Electric
Part-Time Electrical Contracting Company

Professional Organizations

National Fire Protection Association
International Association of Electrical Inspectors
Wake County Association of Electrical Contractors

Publications

Commercial Blueprint Reading, Residential Wiring, 2005 National Electrical Code Changes, 2008 National Electrical Code Changes, House Wiring, According to the 2008 National Electrical Code, Services and Grounding, Commercial & Industrial Wiring, 2011 NEC Changes, 2014 NEC Changes